

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2005/008559

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H01R12/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H01R

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 902 146 A (HANAMI ET AL) 11 May 1999 (1999-05-11) column 2, line 54 ~ column 4, line 24; figures 1,2	1-3,7,9
Y	-----	8
A	EP 1 337 009 A (SUMITOMO WIRING SYSTEMS, LTD) 20 August 2003 (2003-08-20) paragraph '0054!; figure 1	4
A	US 4 632 486 A (HASIRCOGLU ET AL) 30 December 1986 (1986-12-30) column 2, line 30 ~ line 35	5
Y	US 4 464 002 A (SUZUKI ET AL) 7 August 1984 (1984-08-07) figures 4-7	8
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Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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- *A* document defining the general state of the art which is not considered to be of particular relevance
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- *O* document referring to an oral disclosure, use, exhibition or other means
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- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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- *&* document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the International search report
28 June 2005	08/07/2005
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl. Fax: (+31-70) 340-3016	Authorized officer Garcia Congosto, M

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 2002, no. 05, 3 May 2002 (2002-05-03) & JP 2002 025667 A (HIROSE ELECTRIC CO LTD), 25 January 2002 (2002-01-25) cited in the application abstract; figures 4,5,7-10	4

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/US2005/008559

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
US 5902146	A 11-05-1999	JP 3131155 B2 JP 10027636 A		31-01-2001 27-01-1998
EP 1337009	A 20-08-2003	JP 2003243072 A JP 2003243103 A JP 2003243089 A JP 2003257512 A CN 1438740 A DE 60300584 D1 EP 1337009 A2 US 2003171032 A1		29-08-2003 29-08-2003 29-08-2003 12-09-2003 27-08-2003 09-06-2005 20-08-2003 11-09-2003
US 4632486	A 30-12-1986	AU 581389 B2 AU 5795886 A BR 8602388 A CA 1235205 A1 EP 0203793 A2 JP 61273881 A US 4697862 A		16-02-1989 04-12-1986 21-01-1987 12-04-1988 03-12-1986 04-12-1986 06-10-1987
US 4464002	A 07-08-1984	JP 56168372 A JP 56175970 U JP 63035489 Y2 DE 3169952 D1 EP 0043183 A1		24-12-1981 25-12-1981 20-09-1988 23-05-1985 06-01-1982
JP 2002025667	A 25-01-2002	TW 493810 Y US 2002006744 A1		01-07-2002 17-01-2002